

Job# 9-5208

BASF

ETT 110

Sept. 24, 1996

HER 01142

51

# DAILY TIME LOG

DATE	9-24-96	CUSTOMER	BASE
JOB NO.		BARGE	ETT-110

START TIME 8:00 AM

STOP TIME 4:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	7 1/2				
Oscar	7 1/2				
Rivera	8				
Cruz	8				
Mark	7				
Quintero	8				

## MATERIAL LIST:

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## JOB DESCRIPTION:

Strip & Blow Dry: Delallart Stern Box w/ #5, #4, and Bow take off Truck water. Assist chemist with Barge Inspection.

HER 01143

# DAILY TIME LOG

DATE	9-25-86	CUSTOMER	BASE
JOHN		HAIRCIE	ETT 2/10

START TIME 8:00AM

STOP TIME 9:30AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
RIVERA	1 1/2				
CRUZ	1 1/2				
DANIEL D.	1 1/2				

## MATERIAL LIST:

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## JOB DESCRIPTION:

Closed Pipeline (Baptist Bolts to Mages) seal staining Basket, check w/TS, open hatchet. Ballast Bear Lake 1' for 2' unit

HER 01144

# DAILY TIME LOG

DATE	9-25-86	CUSTOMER	RASF
JOHN		NAME	ETHEL

START TIME 3:30 PM

STOP TIME 8:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
LUCIO	4				
Rodriguez	4				
CLAUDIO	2				

## MATERIAL LIST:

## JOB DESCRIPTION:

Ballast Box STRAIN 071560 00  
 071986 00  
 CITY WATER  
 METER READING

HER 01145

# Job Workscope/Breakdown

Job No: 9-5208 Date: 9-23-96 Invoice Number: 3573  
 Customer: BASF Harge/M/V: ETI 110

Foreman:	S/P	@	38.00	
	O/P	@	53.25	
Leadman:	S/P	@	35.00	332.50
	O/P	@	49.50	
Journeyman:	S/P	@	32.50	1,722.50
	O/P	@	45.75	
Disposal:	Slip Oil	@	0.60	
	Water	@	0.35	
Water:		@	5.00/1,000 gal	
Material:		Plus 25%		
Stuck:	35.50	Plus 25%	8.88	44.38
Chemist:	300.	Plus 25%	75	375.00
Equipment:	Compressor	@	48.00	980.00
	Air Movers	@	5.00	100.00
	Forklift	@	30.00	
	Tugboat	@	100.00	
	Steam Rig	@	100.00	
	Vacuum	@	30.00	120.00
	Hand Hose	@	12.00	48.00
	Weld Machine	@	15.00	
	Cherry Picker	@	70.00	
	Crane	@	130.00	
	3" Gas Pump	@	18.00	324.00
	2" Strip Pump	@	15.00	150.00
	Butterworth	@	10.00	
	4" Elec. Pump	@	15.00	
	Cutting Rig	@	8.00	
	Haul Out	@	1,100.00	1,100.00
	Truck	@	25.00	
	Hand Tools	@	10.00	

84,796.38

Total Invoice:

HER 01146

# HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO.

3573

DATE

Sept. 25, 1996

Job No.

9-5208

Location

Freeport, TX

TO:

BASF  
607 Copper Road  
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:  
11011 RICHMOND  
SUITE 500  
HOUSTON, TX. 77042

Terms

Net 30

FOR:

Service to the ETT 110 as follows:

On 9/23 set up equipment to  
Strip, blow dry, deballast stern  
box, wing tank's #4, #5 and bow rake,  
assisted chemist with inspection,  
reballast stern box and bow rake (normal ballast).

LABOR:	Leadman	9.5 hr.	@	35.00 (ST)	332.50
	Journeyman	53 hr.	@	32.50 (ST)	1722.50
STOCK:	35.50	plus 25%	=	8.88	44.38
CHEMIST:	300.00	plus 25%	=	75.00	375.00
EQUIPMENT:	Compressor	10 hr	@	48.00	480.00
	Air Movers	20 hr	@	5.00	100.00
	Vacuum	4 hr	@	30.00	120.00
	Hand Hose	4 hr	@	12.00	48.00
	3" Gas Pump	18 hr.	@	18.00	324.00
	2" Strip Pump	10 hr.	@	15.00	150.00
	Haul Out	1 hr	@	1,100.00	1100.00

TOTAL AMOUNT DUE

\$ 4,796.38

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

HER 01147



Strength through environmental awareness and customer service

P.O. Drawer O  
Freeport, Texas 77541

Office (409) 233-6371  
Fax, (409) 233-6375

Date: 9-24-96 Job No: 5208 Barge/M/V: E+T-110

EQUIPMENT	HOURS
Compressor	8
Air Movers	20
Vacuum	4
Steam Rig	
Hand Hose	2
Boiler	
2" Strip Pump	10
3" Diesel Pump	18
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	3
Gloves	
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

7.10  
4.50  
18.00

5.90

HER 01148

### Barge Cleaning Report

JOB NO 5208 ETA \_\_\_\_\_  
BARGE NO EXT-110 DATE/TIME ARRIVAL 9-24-96 = 7:30  
CUSTOMER BASF DATE/TIME START 9-24-96 = 8:00AM  
PRODUCT CYCLOHEXANE DATE/TIME COMPLETE 9-24-96 =

AMOUNT STRIPPED 300

CLEANING INST. BY Robert Peters COMPLETION SCH. BY \_\_\_\_\_ OVERTIME AUTH. BY \_\_\_\_\_

BARGE INSP. BY Duarte DATE/TIME 2:30 RELEASED TO \_\_\_\_\_ DATE/TIME \_\_\_\_\_

DEEPWELL OPENED: YES N/A NO \_\_\_\_\_ CLOSED BY \_\_\_\_\_ NEW GASKET: YES \_\_\_\_\_ NO \_\_\_\_\_

BELOW DECK CARGO PIPELINE:

BLIND OPENED: YES ✓ NO \_\_\_\_\_ CLOSED BY Duarte NEW GASKET: YES \_\_\_\_\_ NO ✓

DECK CHECK VALVE OPENED: YES N/A NO \_\_\_\_\_ CLOSED BY \_\_\_\_\_ NEW GASKET: YES \_\_\_\_\_ NO \_\_\_\_\_

DECK HEADER BLINDS OPENED: YES ✓ NO \_\_\_\_\_ INSECTED BY CALEB BRETT \_\_\_\_\_

DECK HEADER DRAIN PLUG OPENED: YES ✓ NO \_\_\_\_\_ CLOSED BY Rivera

VAPOR RECOVERY HEADER OPENED: YES ✓ NO \_\_\_\_\_ CLOSED BY Rivera NEW GASKET: YES \_\_\_\_\_ NO ✓

RUST SCALE: YES ✓ NO \_\_\_\_\_ WASHED OUT \_\_\_\_\_ BUCKETED OUT \_\_\_\_\_

NUMBER OF CARGO TANKS 3 CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES N/A NO \_\_\_\_\_ DRIP PANS STRIPPED: YES ✓ NO \_\_\_\_\_

WEATHER: TEMP 56 RAIN \_\_\_\_\_ FOG \_\_\_\_\_ HUMIDITY \_\_\_\_\_ OVERCAST \_\_\_\_\_ CLOUDY \_\_\_\_\_ CLEAR \_\_\_\_\_

PIPELINE WASHED: YES \_\_\_\_\_ NO ✓ PIPELINE BLOWN: YES ✓ NO \_\_\_\_\_ INSPECTED BY CALEB BRETT \_\_\_\_\_

BOW RAKE CHECKED: YES ✓ NO \_\_\_\_\_ STERN RAKE CHECKED: YES \_\_\_\_\_ NO \_\_\_\_\_

VOIDS: YES ✓ NO \_\_\_\_\_ SAFETY EQUIPMENT USED: \_\_\_\_\_

SUMPS INSPECTED: ✓

### NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Date Inspected 9/25/96

Time in: 1900

Time out: 1930

Inspected By: Daniel L. Roese  
Caleb Brett

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

HER 01149



### OUR REFERENCE

[illegible]

DLR  
FOR CALEB BRETT

# Inchcape Testing Services

Caleb Brett

## VISUAL TANK INSPECTION REPORT

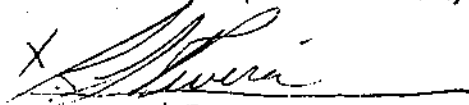
YOUR REFERENCE
OUR REFERENCE

ge "ETT-110"	PRODUCT / CARGO RU/A	PORT / TERMINAL Hercules / Freeport	DATE Sept. 25, 1996
Number	1C	2C	3C
Coating	mild steel	mild steel	mild steel
Cargo	Cyclo	Cyclo	Cyclo
and Last Cargo			
Last Cargo	↓	↓	↓
Date Inspected	1920 9-25-96	1925 9-25-96	1930 9-25-96
Cleanliness Accepted/Rejected*	Accepted	Accepted	Accepted
Reason for Rejection	/	/	/

Method said to have been used to clean tanks:	TK# 1,2,3C	Strip and blow, blow pipe, line, 1/2" min. sweep, machine rust, 1/2" min.
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

X 

  
FOR CALEB BRETT

HER 01151

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 9-20-86

Supervisor Charles Quinto

Plant Hercules marine

Client Safety \_\_\_\_\_

Area Gas Free Dock

E+T-110

The following listed materials are considered to be hazardous to the employees working in this area:

CYCLOHEXANE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

James L. Rivera  
Juan J. Quintero  
Daniel Quinto  
Lorenzo Cruz  
Jim Zander

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

HER 01152



USA and WORLDWIDE

December 31, 1990

## Material Safety Data Sheet

# CYCLOHEXANE (98%, 99.5%, 99.8%, Research Grade, Spectro Grade)

PHILLIPS 66 COMPANY  
A Subsidiary of Phillips Petroleum Company  
Bartlesville, Oklahoma 74004

PHONE NUMBERS  
Emergency: (918) 661-3865  
Business Hours (918) 661-8114  
After Hours (918) 661-8114  
General MSDS Information: (918) 661-8327

### A. Product Identification

Synonyms: Berger Refinery Stream No. 657; Sweeny Refinery Unit 19 Cyclohexane Product; Puerto Rico Core Stream No. 3216; Unit 3.2 Stabilizer Column Bottoms (Puerto Rico Core)

Chemical Name: Cyclohexane  
Chemical Family: Cycloparaffinic Hydrocarbon  
Chemical Formula: C6H12  
CAS Reg. No.: 110-82-7  
Product No.: N249, N24580, N24842

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it is subject to all applicable provisions and restrictions of 40 CFR, section 721 and 723.250.

### B. Hazardous Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Cyclohexane	110-82-7	X	300 ppm	300 ppm

X See Section N for additional product composition information.

HER 01153

NA - Not Applicable NE - Not Established

### Acute Effects of Overexposure:

- Eye:** Contact with the liquid or high vapor concentrations may cause mild eye irritation including redness, swelling of mucous membranes and tearing.
- Skin:** Nominal skin absorption. May defat skin upon repeated or prolonged contact resulting in redness, swelling, pain or thickening. Prolonged exposure to high vapor concentrations may cause a mild mucous membrane irritation.
- Inhalation:** High vapor concentrations may cause dizziness, excitement, hyperactivity, rapid breathing, difficulty breathing, fatigue, headache, incoordination, tremors, nausea and respiratory irritation. Extreme exposures may cause anesthesia, unconsciousness and death.
- Ingestion:** May cause increased respiration rate, fatigue, diarrhea, nausea and central nervous system depression. Extreme exposure may cause circulatory collapse and death. May be aspirated into lungs if swallowed, resulting in pulmonary edema and chemical pneumonitis.

### Subchronic and Chronic Effects of Overexposure:

No known applicable information.

### Other Health Effects:

No known applicable information.

### Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	---	---	Toxic	---	---
Suspect Carcinogen	---	---	Corrosive	---	---
Mutagen	---	---	Irritant	---	---
Teratogen	---	---	Target Organ Toxin	X	X
Allergic Sensitizer	---	---	Specify - Lung - Aspiration Hazard		
Highly Toxic	---	---			

### First Aid and Emergency Procedures:

- Eye:** Flush eyes with water.
- Skin:** Flush skin with water for fifteen minutes.
- Inhalation:** Remove from exposure. If breathing is difficult, give oxygen and seek medical attention.
- Ingestion:** Do not induce vomiting. Seek immediate medical assistance.
- Note to Physician:** Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

HER 01154

### *C. Personal Protection Information*

**Ventilation:** Use adequate ventilation to control exposure below recommended levels.

**Respiratory Protection:** For concentrations exceeding the recommended exposure level, use NIOSH/MSHA approved air purifying respirator. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator. If conditions immediately dangerous to life or health (IDLH) exist, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA).

**Eye Protection:** Use safety glasses with side shields.

**Skin Protection:** Wear polyvinyl alcohol or Buna-N gloves. Use full-body, long sleeved garments to prevent skin contact.

**NOTE:** Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

### *D. Handling and Storage Precautions*

Avoid inhalation and skin and eye contact. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Provide means of controlling leaks and spills. Immediately remove and launder contaminated clothing before reuse.

Store in a cool, well-ventilated area away from ignition sources. Provide means of controlling leaks and spills. Bond and ground during liquid transfer. Keep containers closed.

### *E. Reactivity Data*

**Stability:** Stable

**Conditions to Avoid:** Not Applicable

**Incompatibility (Materials to Avoid):** Oxygen and strong oxidizing materials

**Hazardous Polymerization:** Will Not Occur

**Hazardous Decomposition Products:** Carbon oxides and various hydrocarbons formed when burned.

### *F. Health Hazard Data*

#### **Recommended Exposure Limits:**

See Section B.

HER 01155

## J. DOT Transportation

Shipping Name: Cyclohexane  
Hazard Class: Flammable Liquid  
ID Number: UN 1145  
Marking: Cyclohexane/UN 1145  
Label: Flammable Liquid  
Placard: Flammable/1145  
Hazardous Substance/RQ: Not Applicable  
Shipping Description: Cyclohexane, Flammable Liquid, UN 1145  
Packaging References: 49 CFR 173.118 and 173.119(a)

## K. RCRA Classification - Unadulterated Product as a Waste

U056-Cyclohexane; Ignitable

Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Use NIOSH/MSHA approved respiratory protection, such as air-supplied mask, in confined spaces.

## M. Hazard Classification

☒ This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

<input type="checkbox"/> Combustible Liquid	<input type="checkbox"/> Flammable Aerosol	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Compressed Gas	<input type="checkbox"/> Explosive	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Flammable Gas	<input checked="" type="checkbox"/> Health Hazard (Section F)	<input type="checkbox"/> Unstable
<input checked="" type="checkbox"/> Flammable Liquid	<input type="checkbox"/> Organic Peroxide	<input type="checkbox"/> Water Reactive
<input type="checkbox"/> Flammable Solid		

☐ Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

HER 01156

## G. Physical Data

Appearance: Colorless Liquid  
Odor: Pungent  
Boiling Point: Approx. 177°F (81°C)  
Vapor Pressure: 3.2 psia (145 mm Hg) at 100°F  
Vapor Density (Air = 1): 2.8  
Solubility in Water: Negligible  
Specific Gravity (H<sub>2</sub>O = 1): 0.77 at 60/60°F  
Percent Volatile by Volume: 100  
Evaporation Rate (Butyl Acetate = 1): >1  
Viscosity: Not Established

## H. Fire and Explosion Data

Extinguishing Media: Dry Chemicals, Carbon Dioxide (CO<sub>2</sub>)

Initial Fire Fighting Procedures: Evacuate area.

Conditions warrant. Water fog or spray may be used to cool exposed containers and equipment. Do not spray water directly on fire - product will float and could be reignited on surface of water.

Fire and Explosion Hazards: Carbon oxides and various hydrocarbons formed when burned. Highly flammable vapors which are heavier than air may accumulate in low areas and/or spread along ground away from handling site. Flash back along vapor trail is possible.

## I. Spill, Leak and Disposal Procedures

### Precautions Required if Material is Released or Spilled:

Evacuate area of all unnecessary personnel. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator. In case of spill or leak which results in conditions immediately dangerous to life or health (IDLH) use NIOSH/MSHA approved self-contained breathing apparatus (SCBA) equipment. When entry into or exit from concentrations of unknown exposure, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA). Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in

HER 01157



## N. Additional Comments

### Additional Product Composition Information:

	Ingredient	% By Wt.
98.0%	Cyclohexane	98.7
	Methylcyclopentane	0.4
	Methylhexanes	0.3
	Dimethylpentane	0.2
99.5%	Cyclohexane	99.8
	Related Hydrocarbons	0.2
99.8%	Cyclohexane	99.9
	Related Hydrocarbons	0.1

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section B):

Cyclohexane

HER 01158

THIS DOCUMENT CONTAINS INFORMATION THAT HAS BEEN DETERMINED TO BE UNCLASSIFIED BY THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION. IT IS BEING RELEASED TO THE PUBLIC IN FULL. IT IS THE POLICY OF THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION TO MAKE ALL INFORMATION CONTAINED HEREIN AVAILABLE TO THE PUBLIC, UNLESS IT IS DETERMINED THAT DISCLOSURE OF THE INFORMATION WOULD BE DETRIMENTAL TO THE NATIONAL DEFENSE. FOR FURTHER INFORMATION, CONTACT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION, 8601 COLLEGE PARK DRIVE, COLLEGE PARK, MD 20740-6001. (301) 837-1100. THIS INFORMATION IS BEING RELEASED TO THE PUBLIC IN FULL. IT IS THE POLICY OF THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION TO MAKE ALL INFORMATION CONTAINED HEREIN AVAILABLE TO THE PUBLIC, UNLESS IT IS DETERMINED THAT DISCLOSURE OF THE INFORMATION WOULD BE DETRIMENTAL TO THE NATIONAL DEFENSE. FOR FURTHER INFORMATION, CONTACT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION, 8601 COLLEGE PARK DRIVE, COLLEGE PARK, MD 20740-6001. (301) 837-1100.



# HERCULES

MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O  
Freeport, Texas 77541

Office (409) 233-6371  
Fax. (409) 233-6375

## Final Check List

DATE: 9-24-96

BARGE: ET-110

		<u>REPLACED GASKET</u>
BLND NUMBER CHECKED	<u>2</u>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
GATE VALVE NUMBER CHECKED	<u>6</u>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
PLUGS NUMBER CHECKED	<u>N/A</u>	YES <input type="checkbox"/> NO <input type="checkbox"/>
CHECK VALVE NUMBER CHECKED	<u>N/A</u>	YES <input type="checkbox"/> NO <input type="checkbox"/>
DEEPWELL BLIND NUMBER CHECKED	<u>N/A</u>	YES <input type="checkbox"/> NO <input type="checkbox"/>
BELOW DECK CARGO PIPELINE BLIND NUMBER	<u>2</u>	YES <input type="checkbox"/> NO <input type="checkbox"/>

BELOW DECK CARGO PIPELINE BLIND REMOVED

YES ☒ NO ☐

DRIP PAN VALVES: Closed By: Cruz DRIP PANS COVER:

Closed by: N/A

CONTAINMENT AREA PLUG OR VALVES:

Closed by: N/A

AIR TEST CARGO LINE - 40 psi - USING SOAP

SIGNATURE OF TESTER:

[Signature]

SIGNATURE OF WITNESS:

[Signature]

- \* CHECK VALVE GASKET WILL BE REPLACED
- \* AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

HER 01159

\* Rules and Regulations for Tank Vessels

# HERCULES OFFSHORE CO.

INVOICE NO. 3573

## MARINE REPAIR

MARINE OPERATIONS FACILITY

ORDER No. 9-5208

CUSTOMER P.O. \_\_\_\_\_

DATE	ORDER WRITTEN <u>9-23-96</u>	ETA <u>9-24-96</u>
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
	M/V <input type="checkbox"/> BARGE <input type="checkbox"/>	
	NAME <u>ETT 110</u>	WIDTH
	FOREMAN	
	LAST PRODUCT	
	GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/>	CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>
	HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>	
	ON WAYS	DATE: _____
	ON WAYS	DATE: _____

CUSTOMER	NAME <u>BASF</u>	
	BILLING ADDRESS	
	CITY AND STATE	
	PHONE NUMBER	
	WORK AUTHORIZED BY <u>Robert Peters</u>	BY AUTHORIZED BY
	STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO	
	IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET	
	OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO	
	IF YES, LIST	

### ITEM NUMBERS

- 1 Strip blowdry <sup>Deballast</sup> haul out. Put normal ballast back on.
- 2 Deballast Stern Box, W's #5, 4, and Bow Rake. Assist in chemist inspection
- 3 Reballast Stern Box & Bow Rake (Normal Ballast)
- 4
- 5
- 6
- 7
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Paul J. Deane

Date: 9-24-96

HER 01161

# HERCULES OFFSHORE CO.

INVOICE NO. 3573

## MARINE REPAIR

MARINE OPERATIONS FACILITY

CUSTOMER P.O. \_\_\_\_\_

ORDER No. 9-5208

DATE	ORDER WRITTEN	ETA
	<u>9-23-96</u>	<u>9-24-96</u>
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
	M/V <input type="checkbox"/> BARGE <input type="checkbox"/>	
	NAME <u>ETT 110</u>	
	LOA	WIDTH
	FOREMAN	
	LAST PRODUCT	
	GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/>	CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>
	HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>	
	ON WAYS	DATE: _____
	ON WAYS	DATE: _____

CUSTOMER	NAME <u>BASF</u>
	BILLING ADDRESS
	CITY AND STATE
	PHONE NUMBER
	WORK AUTHORIZED BY <u>Robert Peters</u>
	STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO
	IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET
	OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO
	IF YES, LIST

### ITEM NUMBERS

- 1 Strip blowdry haul out. Put normal ballast back on.
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

HER 01162

# HERCULES OFFSHORE CO.

INVOICE NO. 3573

## MARINE REPAIR

MARINE OPERATIONS FACILITY

ORDER No. 9-5208

CUSTOMER P.O. \_\_\_\_\_

DATE	ORDER WRITTEN	ETA
	<u>9-23-96</u>	<u>9-24-96</u>
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>		
NAME <u>ETT 110</u>		
LOA _____ WIDTH _____		
FOREMAN _____		
LAST PRODUCT _____		
GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>		
ON WAYS _____ DATE: _____		
ON WAYS _____ DATE: _____		

CUSTOMER	NAME	<u>BASF</u>
	BILLING ADDRESS	
	CITY AND STATE	
	PHONE NUMBER	
WORK AUTHORIZED BY		BY AUTHORIZED BY
<u>Robert Peters</u>		
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET		
OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, LIST		

### ITEM NUMBERS

- 1 Strip blowdry <sup>Deballast</sup> haul out. Put normal ballast back on.
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

HER 01163

ERIC L. MOORE MARINE CHEMIST OFFICE (713) 520-5479  
P. O. BOX V - FREEPORT, TX 77542 FAX (409) 299-6655

**MARINE CHEMIST CERTIFICATE**  
**SERIAL NO. G 78729**

JERRY  
Survey Requested by

ETT 110  
Vessel

CYCLOHEXANE (3)  
Last Three (3) Cargoes

HERCULES  
Vessel Owner or Agent

TANK BARGE  
Type of Vessel

LEL-Q-PID-USUAL  
Tests Performed

24 SEP 96  
Date

HERCULES  
Specific Location of Vessel

16:00  
Time Survey Completed

CARGO TANKS No 1, 2 & 3

WING TANKS No 1, 2, 3, 4 & 5 - PORT  
& STARBOARD

BOW RAKE

STERN BOX

SAFE FOR WORKERS

SAFE FOR HOTWORK

PROVIDE VENTILATION DURING ALL ENTRY BY WORKERS

ATMOSPHERIC TEST 20.8% O<sub>2</sub>

0% LEL

0 PPM CYCLO

CARGO PIPELINE

STEAM LINES

SAFE FOR HOTWORK

MAINTAIN AIR FLOW ON PIPELINES PAST WORK SITE  
DURING ALL HOTWORK ON LINES

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

**QUALIFICATIONS:** Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

**STANDARD SAFETY DESIGNATIONS** (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

**SAFE FOR WORKERS:** Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

**NOT SAFE FOR WORKERS:** Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

**ENTER WITH RESTRICTIONS:** Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

**SAFE FOR HOT WORK:** Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit, and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

**NOT SAFE FOR HOT WORK:** Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

**SAFE FOR REPAIR YARD ENTRY:** Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

**CHEMIST'S ENDORSEMENT.** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

*Eric L. Moore*  
Name

Company

Date

Signed

*Eric L. Moore*  
Name Chemist

Control No.

626

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

VESSEL POSTING

HER 01164

Printed in U.S.A.

MARINE CHEMIST CERTIFICATE  
SERIAL NO. G78729

JERRY	HERCULES	24 SEP 96
Survey Requested by	Vessel Owner or Agent	Date
ETT 110	TANK BARGE	HERCULES
Vessel	Type of Vessel	Specific Location of Vessel
CYCLOHEXANE (3)	LEL-0-PID-USUAL	16.00
Last Three (3) Cargoes	Tests Performed	Time Survey Completed

CARGO TANKS No 1, 2 & 3

WING TANKS No 1, 2, 3, 4 & 5-PORT  
1 STARBOARD

SAFE FOR WORKERS

SAFE FOR HOTWORK

BOW RAKE

STERN BOX

PROVIDE VENTILATION DURING ALL ENTRY BY WORKERS

ATMOSPHERIC TEST 20.8% O<sub>2</sub>

0% LEL

0 PPM CYCLO

CARGO PIPE LINE

SAFE FOR HOTWORK

STEAM LINES

MAINTAIN AIR FLOW ON PIPELINES PAST WORK SITE  
DURING ALL HOTWORK ON LINES

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**QUALIFICATIONS:** Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

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The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_

Signed \_\_\_\_\_

Marine Chemist

Certified \_\_\_\_\_

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS



ERIC L. MOORE MARINE CHEMIST OFFICE (713) 520-5479  
P.O. BOX V - FREEPORT, TX 77542 FAX (409) 298-8655

MARINE CHEMIST CERTIFICATE  
SERIAL NO. G78729

JERRY  
Survey Requested by  
ETT 110

Vessel  
CYCLOHEXANE (3)  
Last Three (3) Cargoes

HERCULES  
Vessel Owner or Agent  
TANK BARGE  
Type of Vessel  
LEL-O-PID-USUAL  
Tests Performed

24 SEP 96  
Date  
HERCULES  
Specific Location of Vessel  
16:00  
Time Survey Completed

CARGO TANKS NO 1, 2 & 3

WING TANKS NO 1, 2, 3, 4 & 5 - PORT  
& STARBOARD

BOW RAKE

STERN BOX

SAFE FOR WORKERS

SAFE FOR HOTWORK

PROVIDE VENTILATION DURING ALL ENTRY BY WORKERS

ATMOSPHERIC TEST 20.3% O<sub>2</sub>

0% LEL

0 PPM CYCLO

CARGO PIPE LINE

STEAM LINES

SAFE FOR HOTWORK

MAINTAIN AIR FLOW ON PIPELINES PAST WORK SITE  
DURING ALL HOTWORK ON LINES

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

**QUALIFICATIONS:** Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

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The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed \_\_\_\_\_  
Name

Company

Date

Signed \_\_\_\_\_  
Marine Chemist

626  
Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

ERIC L. MOORE MARINE CHEMIST OFFICE (713) 520-5479  
P.O. BOX V • FREEPORT, TX 77542 FAX (409) 299-8655

# MARINE CHEMIST CERTIFICATE

SERIAL NO. G78729

JERRY	HERCULES	24 SEP 96
Survey Requested by	Vessel Owner or Agent	Date
ETT 110	TANK BARGE	HERCULES
Vessel	Type of Vessel	Specific Location of Vessel
CYCLOHEXANE (3)	LEL-O-PID-USUAL	16.00
Last Three (3) Cargoes	Tests Performed	Time Survey Completed

CARGO TANKS NO 1, 2 & 3

WING TANKS NO 1, 2, 3, 4 & 5 - PORT

& STARBOARD

SAFE FOR WORKERS

SAFE FOR HOTWORK

BOW RAKE

STERN BOX

PROVIDE VENTILATION DURING ALL ENTRY BY WORKERS

ATMOSPHERIC TEST 22.8% O<sub>2</sub>

0% LEL

0 PPM CYCLO

CARGO PIPE LINE

SAFE FOR HOTWORK

STEAM LINES

MAINTAIN AIR FLOW ON PIPELINES FAST WORK SITE  
DURING ALL HOTWORK ON LINES

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The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed, and is issued subject to compliance with all qualifications and instructions.

Signed

Name

Company

Date

Signed

Marine Chemist

626

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

HER 01167

